

SEE SHEET C.404



LEGEND:

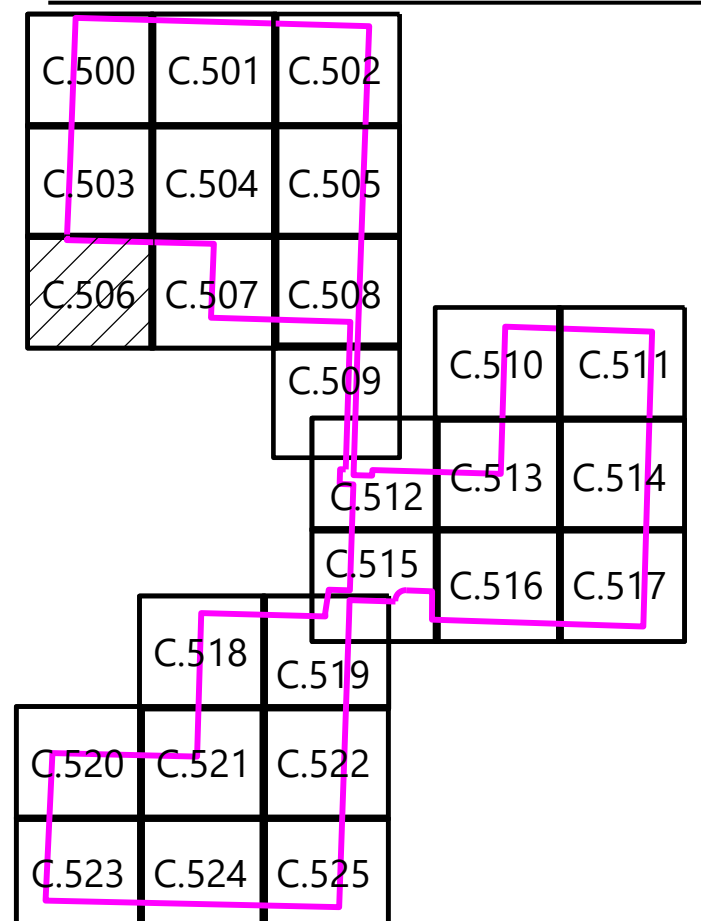
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- EX. SECTION LINE
- EX. PARCEL LINE
- RIGHT-OF-WAY LINES
- EX. OVERHEAD POWER
- EX. UNDERGROUND COLLECTION
- EX. FIBER OPTIC
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. STREAM CHANNEL
- EX. WETLAND
- EX. STRUCTURE
- EX. CULVERT
- EX. SIGN
- EX. TELEPHONE PEDESTAL
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED SOLAR ARRAY WITH INVERTER
- PROPOSED WETLAND SETBACK
- PROPOSED SOLAR ARRAY BOUNDARY
- PROPOSED MODULE SETBACK
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- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
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- PROPOSED DEER GATE LOCATION

SEE SHEET C.408

NOTES:

1. SEE SITE PLAN SHEETS C.401 THRU C.426 FOR LAYOUT OF ARRAY AND FACILITY FEATURES.
2. SITE PREPARATION INCLUDES BUT IS NOT LIMITED TO CLEARING/GRUBBING, MINOR GRADING, COMPACTION, MOWING OF VEGETATION, AND RESTABILIZATION OF DISTURBED AREA.
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4. CONTRACTOR SHALL INSTALL ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES.
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6. OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED WITH SOLAR FACILITY.

KEY MAP



Westwood

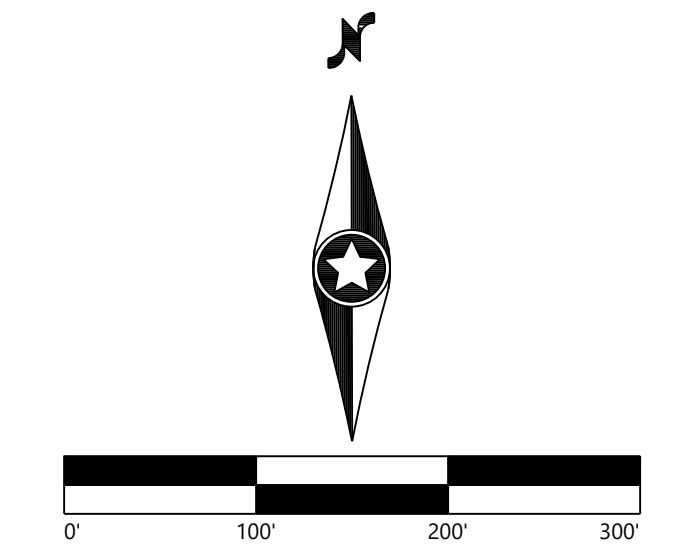
Phone (952) 937-5150 12701 Whitewater Drive, Suite #300
 Fax (952) 937-5822 Minnetonka, MN 55343
 TollFree (888) 937-5150 westwoodps.com
 Westwood Professional Services, Inc.

PREPARED FOR:
 nationalgrid renewables

8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	05/01/2023	Permit Plans	MB	BV	KA



Elk Creek Solar Project
 Rock County, MN

Grading and Drainage Plan - 7

NOT FOR CONSTRUCTION

DATE: 05/01/2023 REV:
 SHEET: C.506 A

20230501 10:00 AM C:\Users\jgibson\OneDrive\Documents\Elk Creek Solar\Grading and Drainage Plan - 7.dwg 3/2/2023 10:00 AM Matt Elmgren

SEE SHEET C.406

SEE SHEET C.408

SEE SHEET C.410



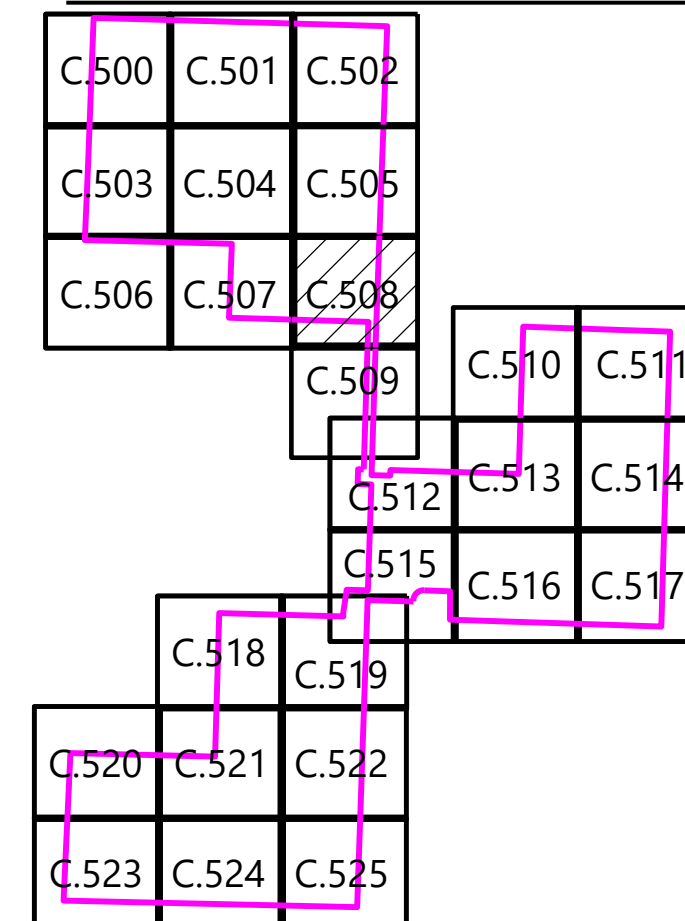
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KEY MAP



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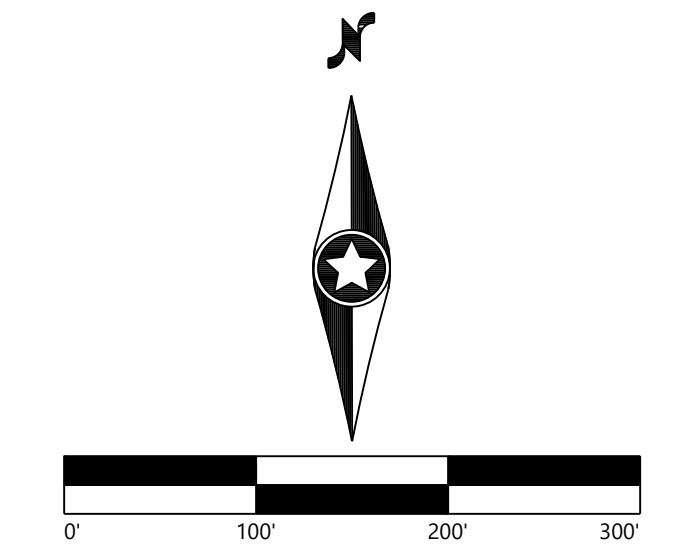
PREPARED FOR:



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 Bloomington, MN 55347

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Elk Creek Solar Project

Rock County, MN

Grading and Drainage
 Plan - 9

NOT FOR CONSTRUCTION

DATE: 05/01/2023 REV:
 SHEET: C.508 A

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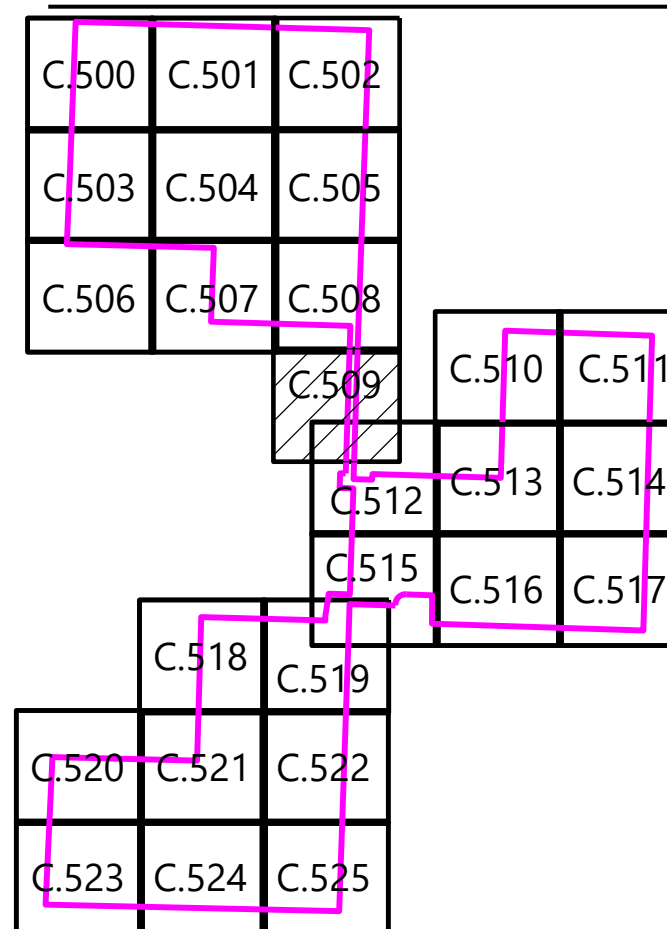
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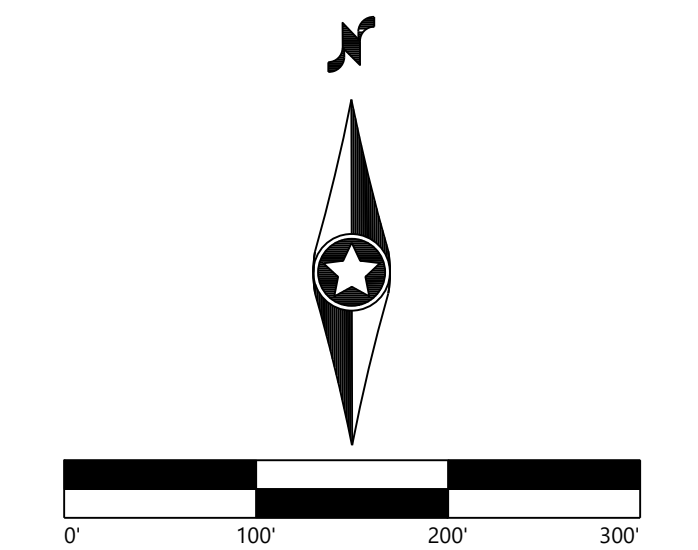
PREPARED FOR:



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 Bloomington, MN 55347

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Elk Creek Solar Project

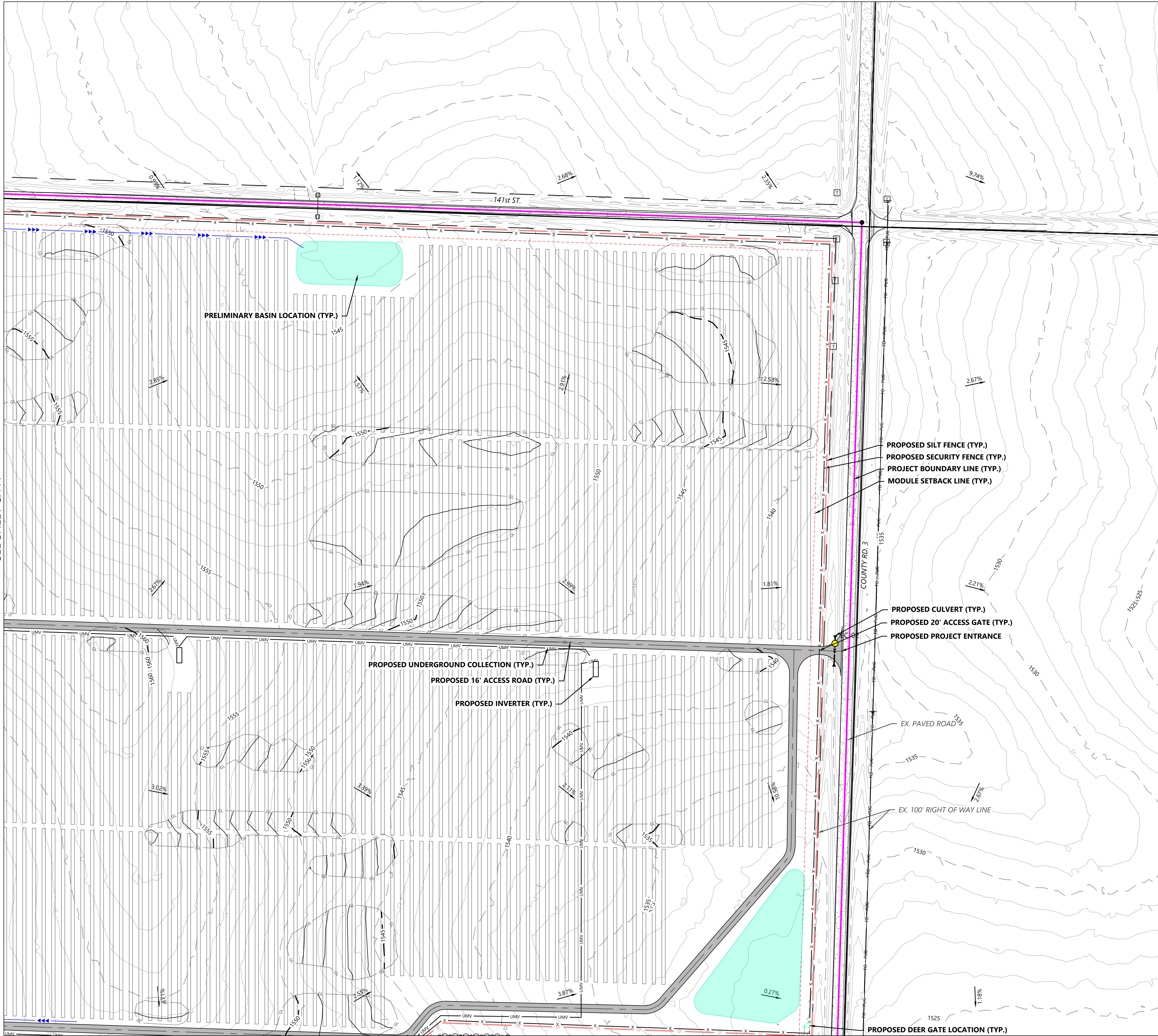
Rock County, MN

Grading and Drainage Plan - 10

NOT FOR CONSTRUCTION

DATE: 05/01/2023 REV:

SHEET: C.509 A

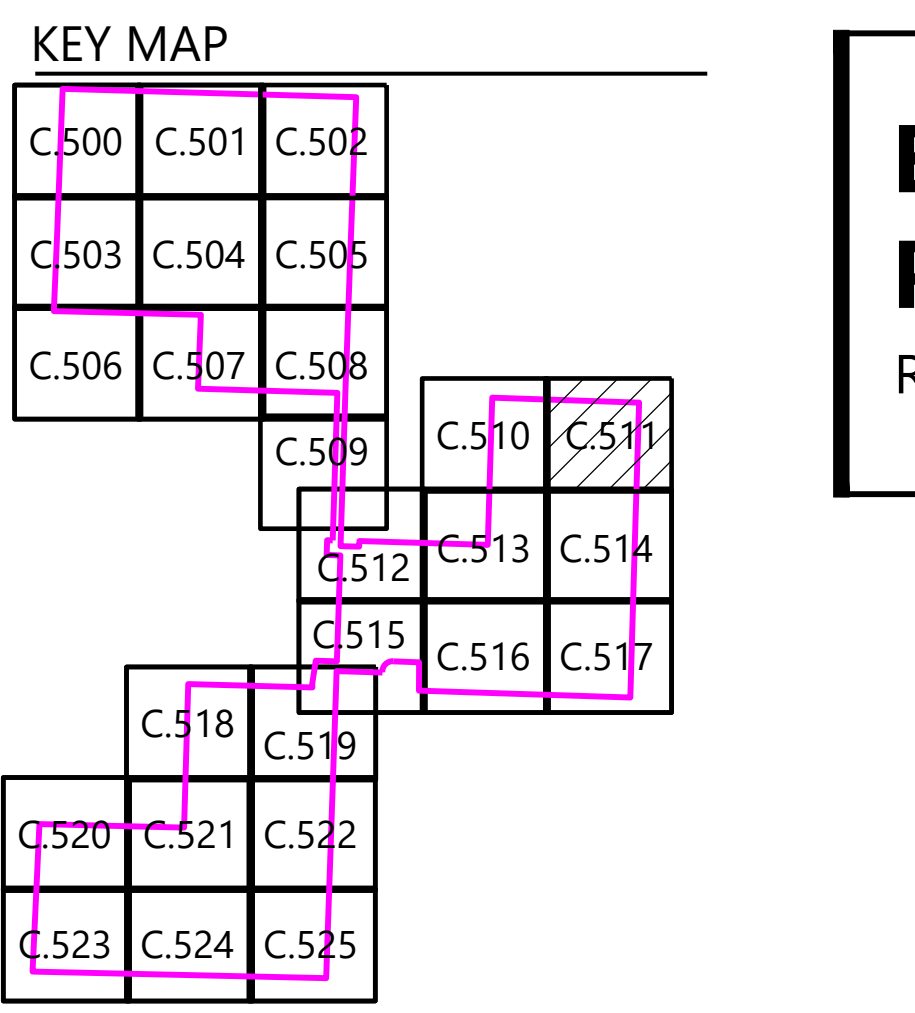


SEE SHEET C.411

SEE SHEET C.415

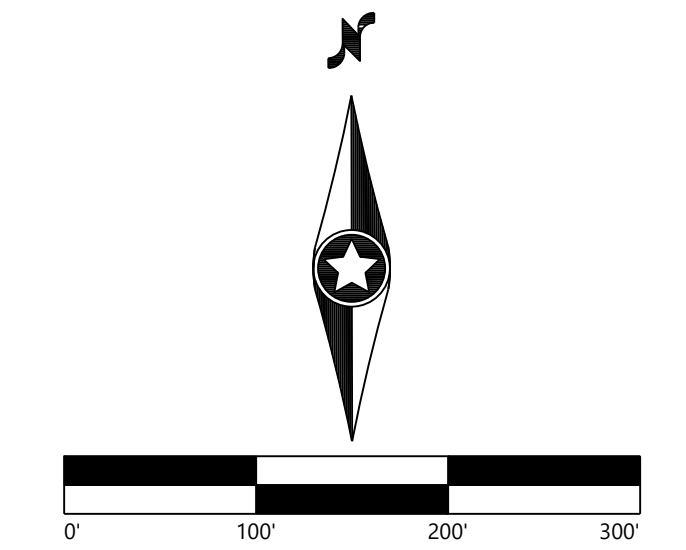
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Elk Creek Solar Project
 Rock County, MN

Grading and Drainage
 Plan - 12

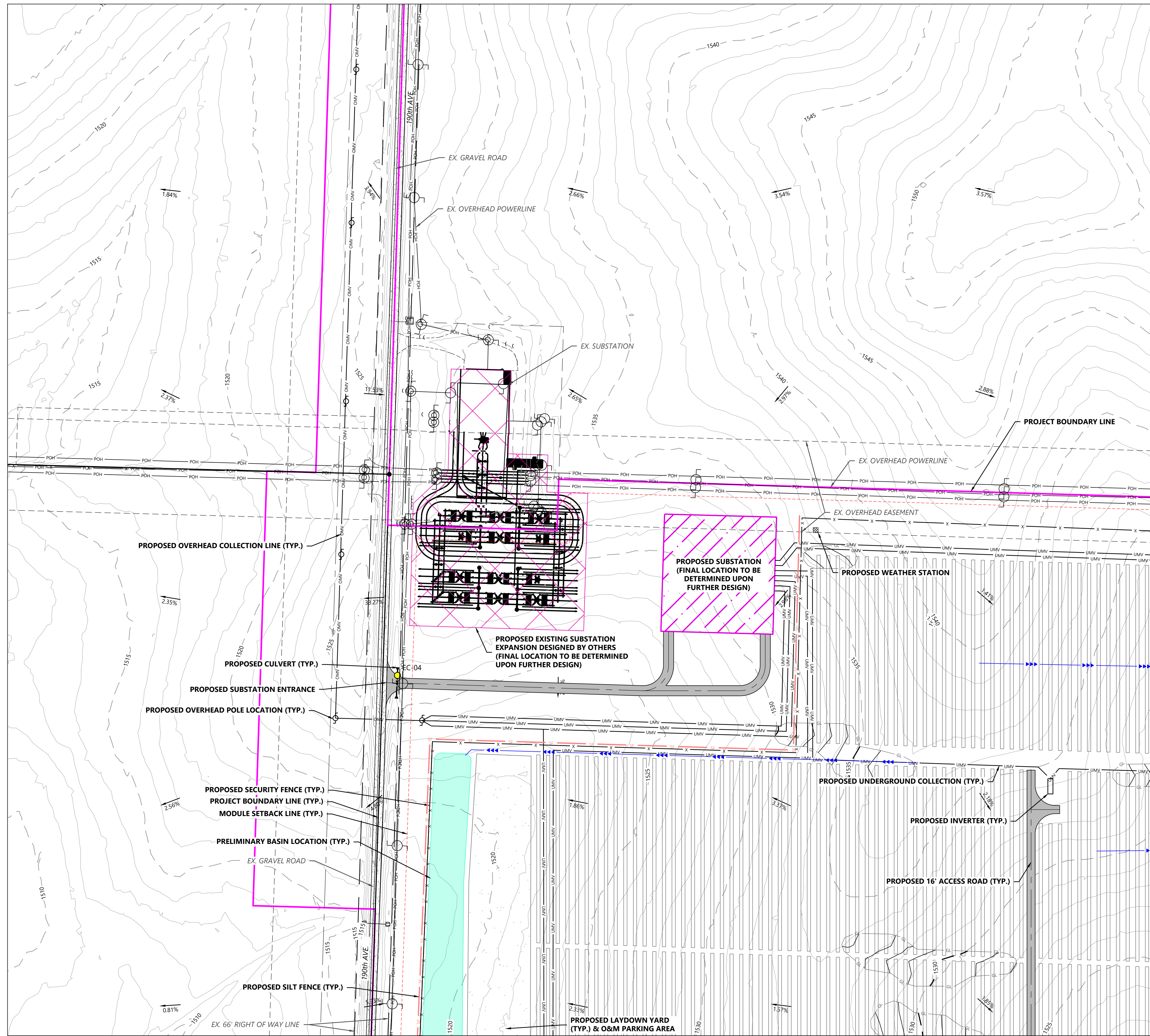
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DATE: 05/01/2023 REV:
 SHEET: C.511 A

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SEE SHEET C.410

SEE SHEET C.416



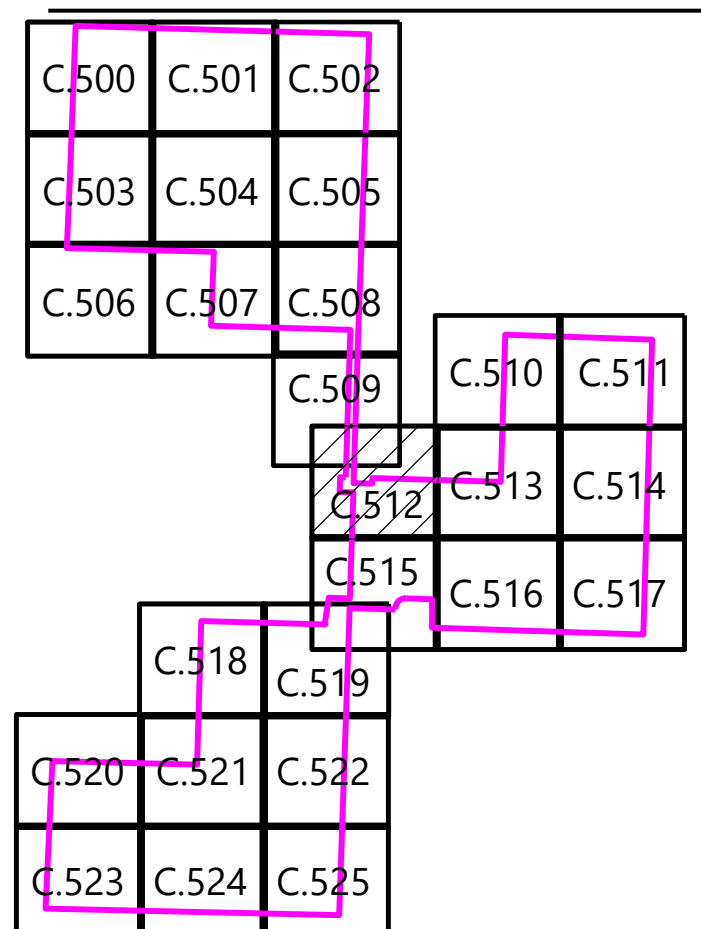
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SEE SHEET C.414

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KEY MAP



Westwood

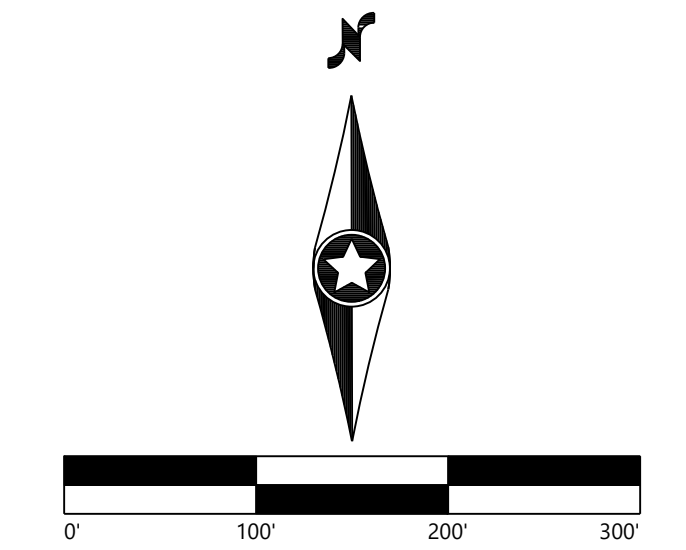
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A	05/01/2023	Permit Plans	MB	BV	KA



Elk Creek Solar Project
 Rock County, MN

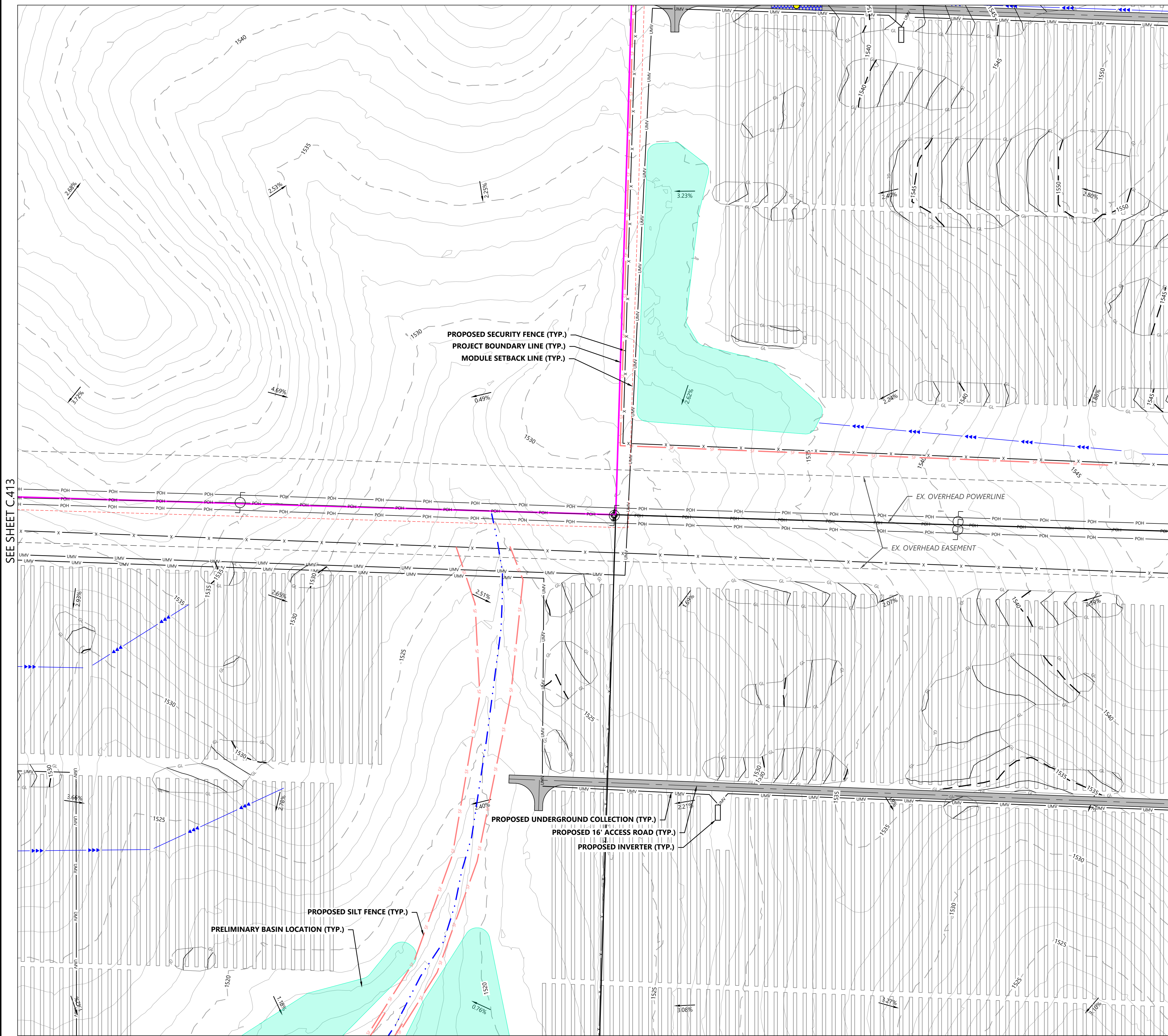
Grading and Drainage
 Plan - 13

NOT FOR CONSTRUCTION

DATE: 05/01/2023 REV:
 SHEET: C.512 A

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SEE SHEET C.411



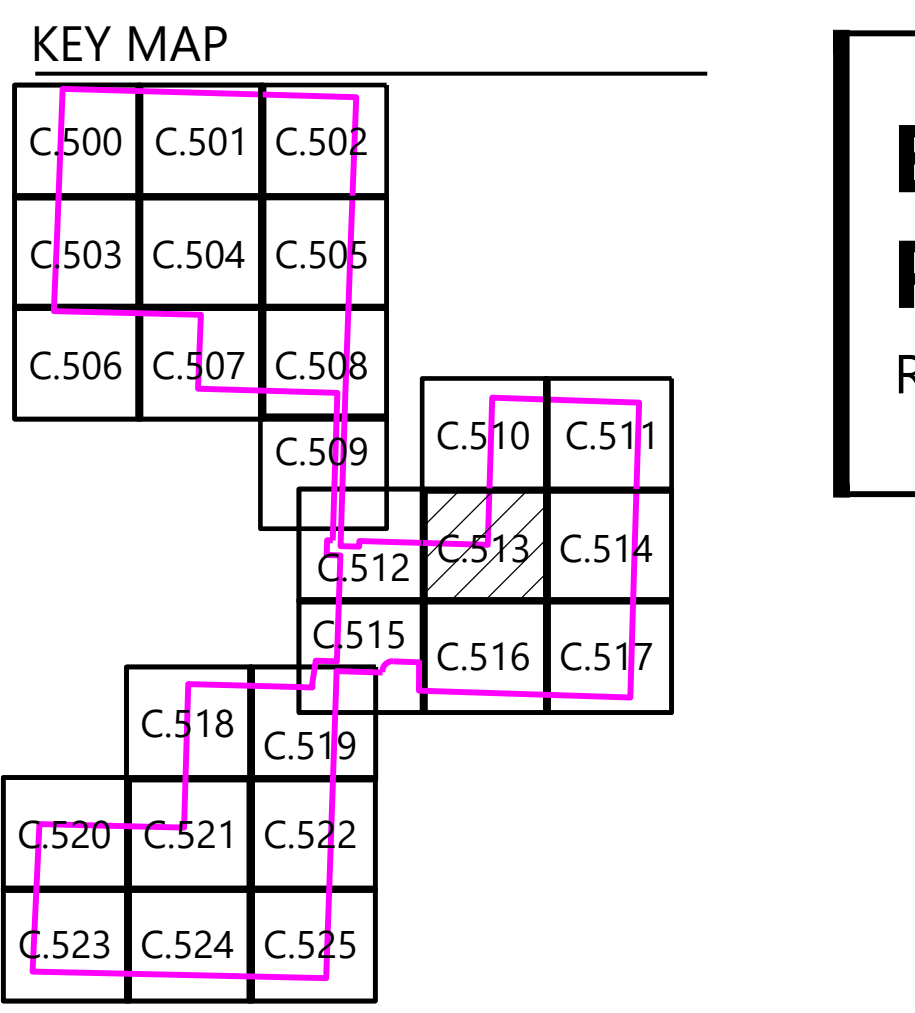
SEE SHEET C.413

SEE SHEET C.415

SEE SHEET C.417

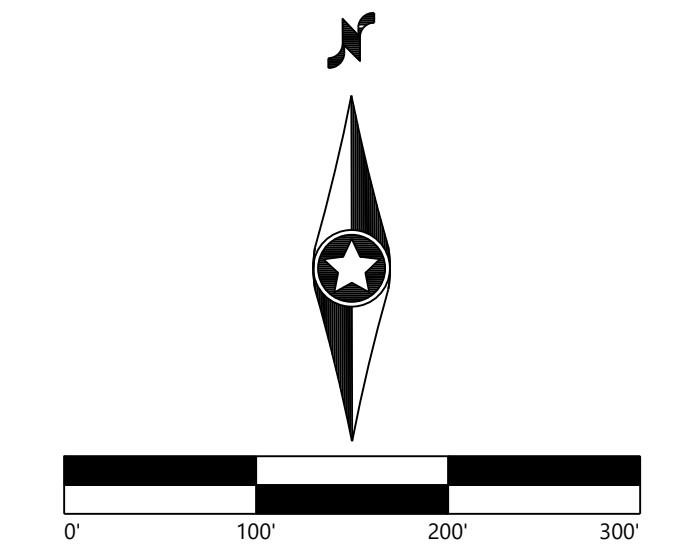
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Elk Creek Solar Project
 Rock County, MN

Grading and Drainage Plan - 14

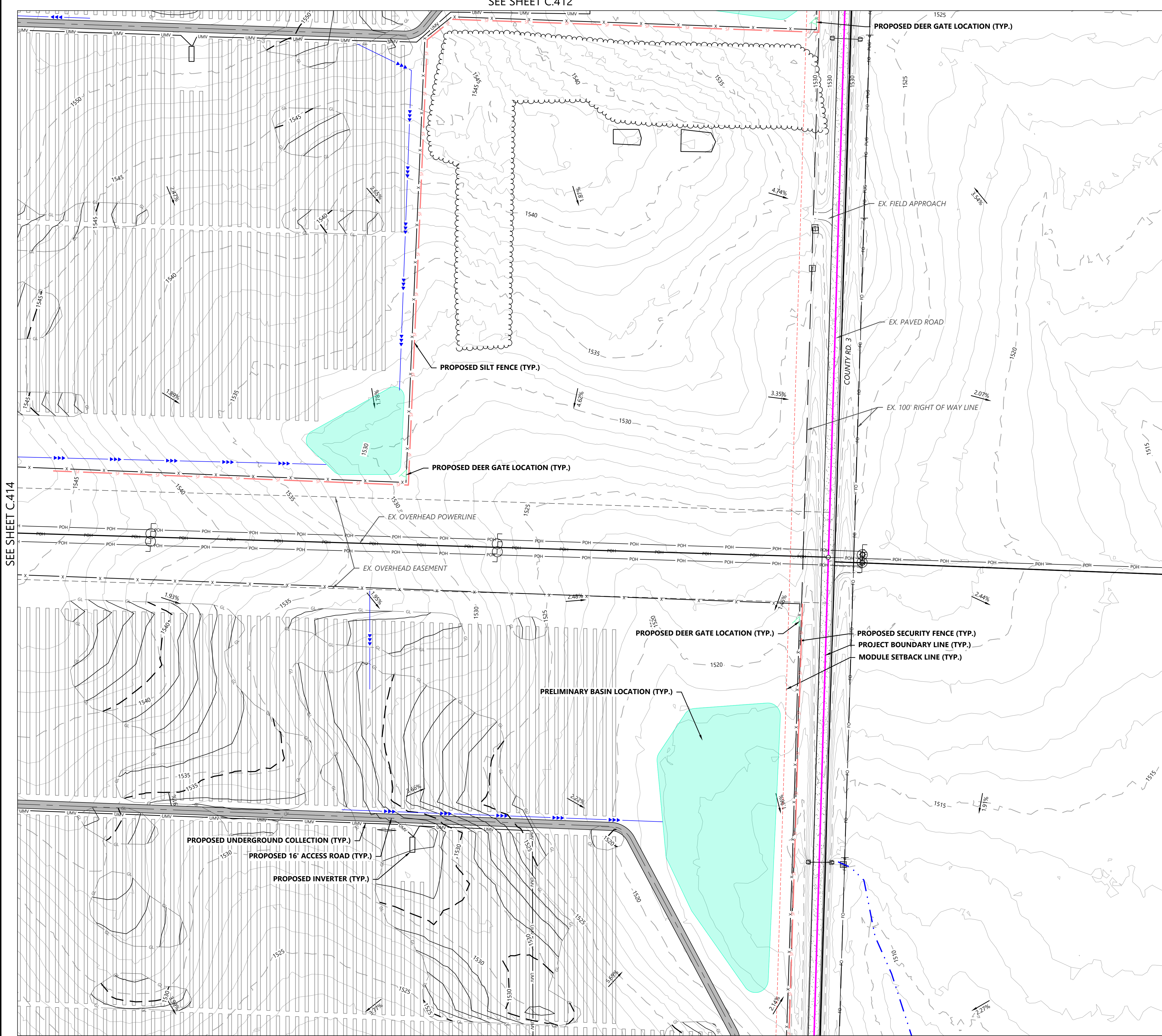
NOT FOR CONSTRUCTION

DATE: 05/01/2023 REV:
 SHEET: C.513 A

20230501 10:00 AM C:\Users\jgibson\OneDrive\Documents\Elk Creek Solar\Grading and Drainage Plan - 14.dwg 3/2/2023 3:28 PM Matt Bump

SEE SHEET C.412

SEE SHEET C.418



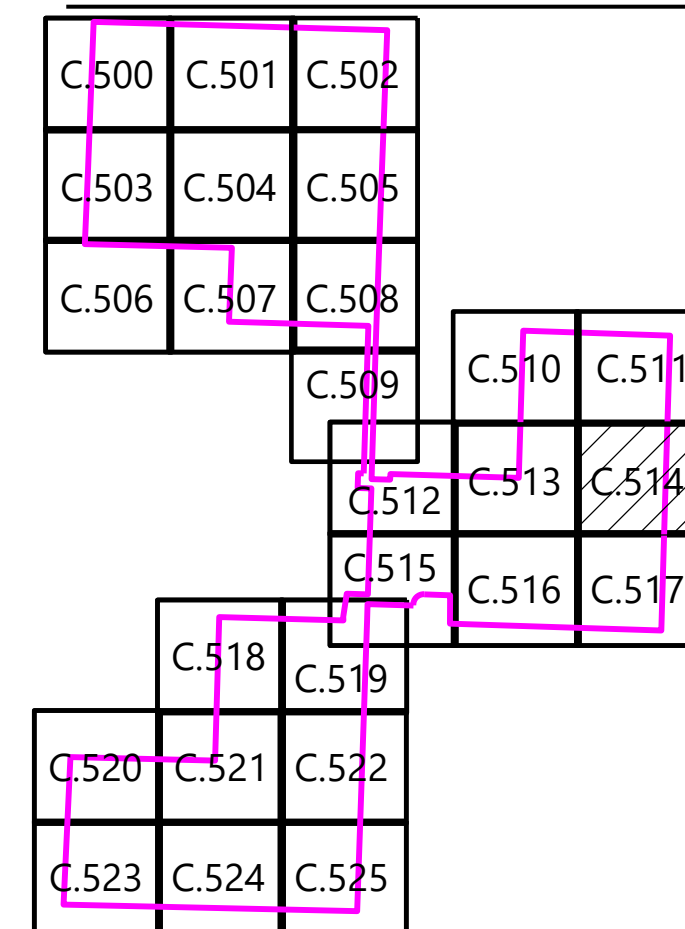
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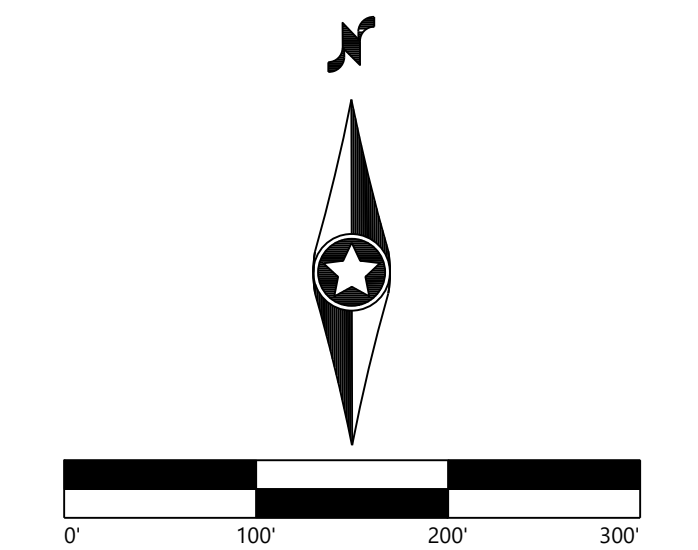
PREPARED FOR:



8400 Normandale Lake Blvd, Suite 1200
 Bloomington, MN 55347

REVISIONS:

#	DATE	COMMENT	BY	CHK	APR
A	05/01/2023	Permit Plans	MB	BV	KA



Elk Creek Solar Project

Rock County, MN

Grading and Drainage
 Plan - 15

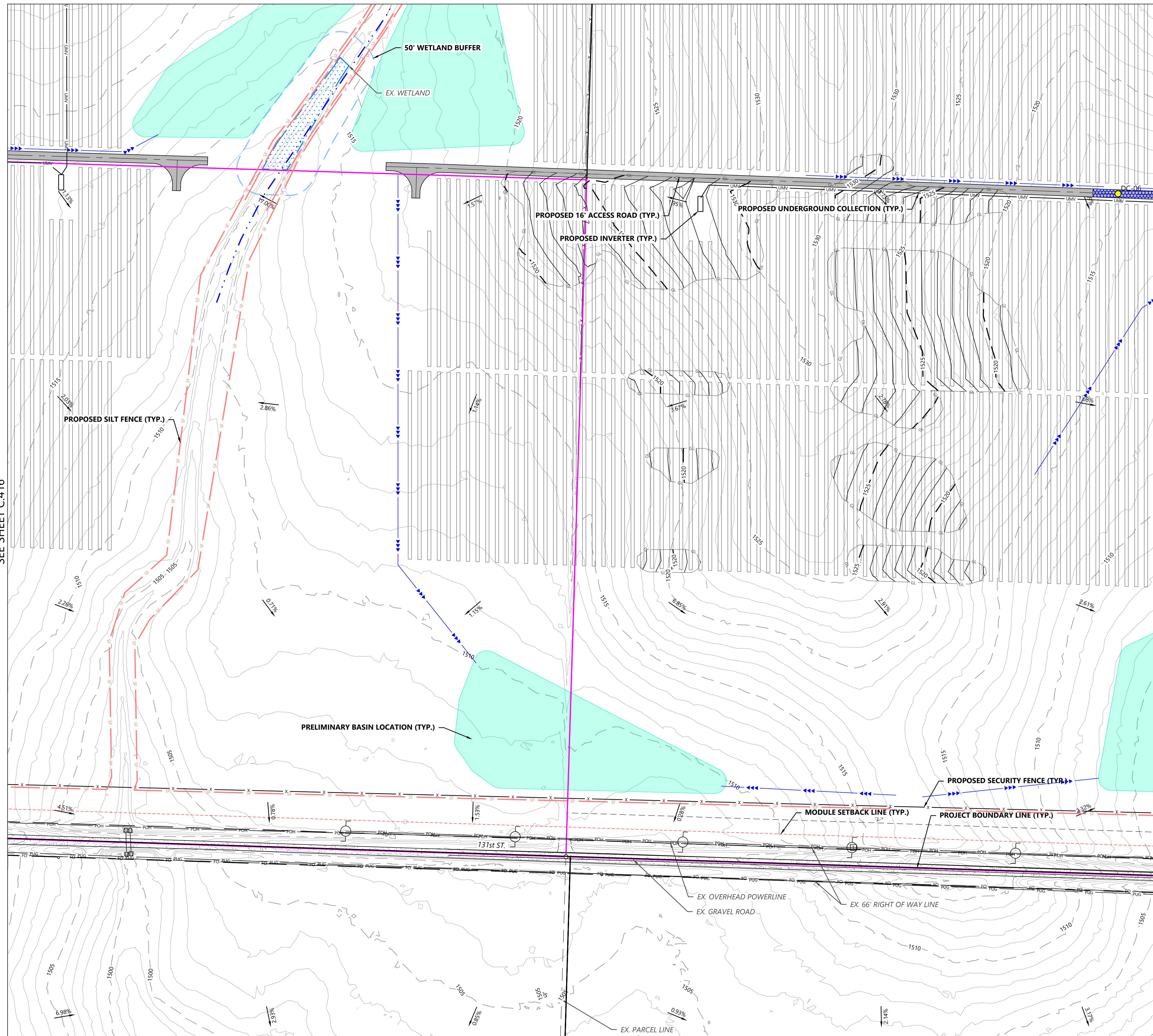
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DATE: 05/01/2023 REV:

SHEET: C.514 A

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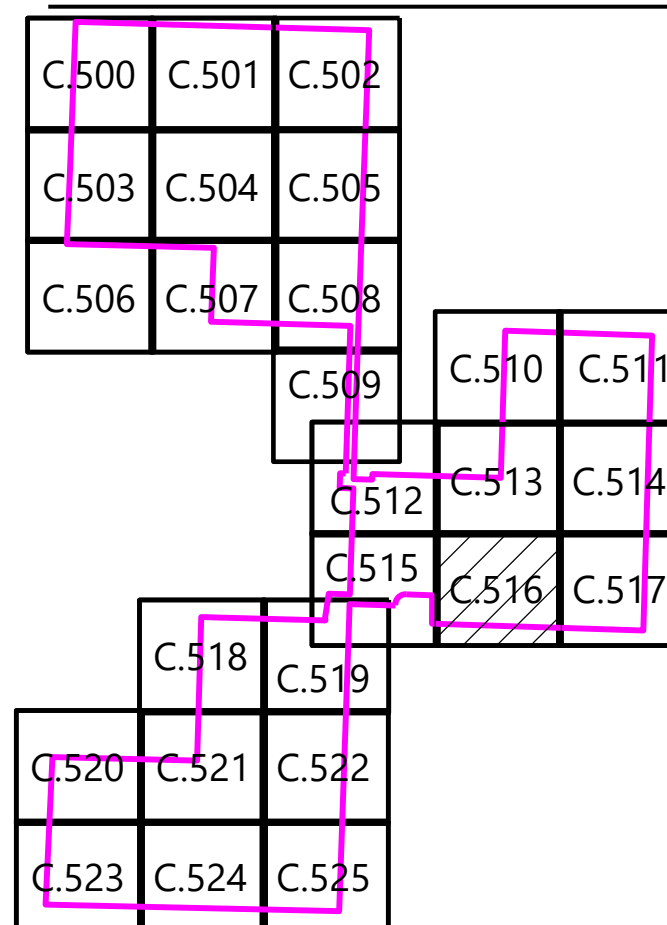
LEGEND:

- PROJECT BOUNDARY
- - - EX. EASEMENT LINE
- - - EX. SECTION LINE
- EX. PARCEL LINE
- RIGHT-OF-WAY LINES
- OPH EX. OVERHEAD POWER
- PUG EX. UNDERGROUND COLLECTION
- FO EX. FIBER OPTIC
- EX. PAVED ROAD
- EX. GRAVEL ROAD
- EX. STREAM CHANNEL
- EX. WETLAND
- EX. STRUCTURE
- EX. CULVERT
- EX. SIGN
- EX. TELEPHONE PEDESTAL
- EX. INDEX CONTOUR
- EX. INTERVAL CONTOUR
- PROPOSED INDEX CONTOUR
- PROPOSED INTERVAL CONTOUR
- PROPOSED SOLAR ARRAY WITH INVERTER
- PROPOSED WETLAND SETBACK
- PROPOSED SOLAR ARRAY BOUNDARY
- PROPOSED MODULE SETBACK
- PROPOSED ACCESS ROAD
- PROPOSED SECURITY FENCE
- PROPOSED LAYDOWN YARD
- PROPOSED O&M LOCATION
- PROPOSED SUBSTATION LOCATION
- PROPOSED EXISTING SUBSTATION EXPANSION LOCATION
- PROPOSED SCREENING
- PROPOSED LOW WATER CROSSING
- PROPOSED SILT FENCE
- PROPOSED CULVERT
- PROPOSED PRELIM DRAINAGE BASIN
- DL --- PROPOSED DISTURBANCE LIMITS
- GL --- PROPOSED GRADING LIMITS
- PROPOSED GRADE BREAK SWALES
- PROPOSED DRAINAGE CROSSING
- PROPOSED ENTRANCE CULVERT
- PROPOSED UNDERGROUND COLLECTION
- PROPOSED OVERHEAD COLLECTION
- PROPOSED DEER GATE LOCATION

NOTES:

1. SEE SITE PLAN SHEETS C.401 THRU C.426 FOR LAYOUT OF ARRAY AND FACILITY FEATURES.
2. SITE PREPARATION INCLUDES BUT IS NOT LIMITED TO CLEARING/GRUBBING, MINOR GRADING, COMPACTION, MOWING OF VEGETATION, AND RESTABILIZATION OF DISTURBED AREA.
3. MINOR SURFACE SMOOTHING MAY OCCUR IN AREAS WHERE GRADING IS NOT PROPOSED FOR SAFETY OR SOLAR ARRAY INSTALLATION.
4. CONTRACTOR SHALL INSTALL ALL PERIMETER EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO UPSLOPE DISTURBANCE ACTIVITIES.
5. ACCESS ROADS WILL BE CONSTRUCTED TO MATCH THE SURROUNDING EXISTING GROUND ELEVATIONS TO ALLOW THE CONTINUATION OF DRAINAGE PATTERNS. A CROWNED OR CONTINUOUS CROSS SLOPE WILL BE PROVIDED BASED ON SITE CONDITIONS.
6. OVERALL DRAINAGE PATTERNS WILL NOT BE ALTERED WITH SOLAR FACILITY.

KEY MAP



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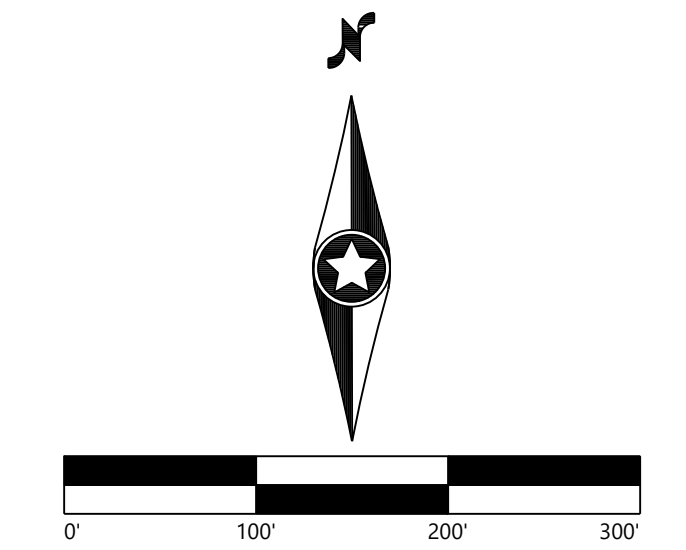
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Elk Creek Solar Project

Rock County, MN

Grading and Drainage Plan - 17

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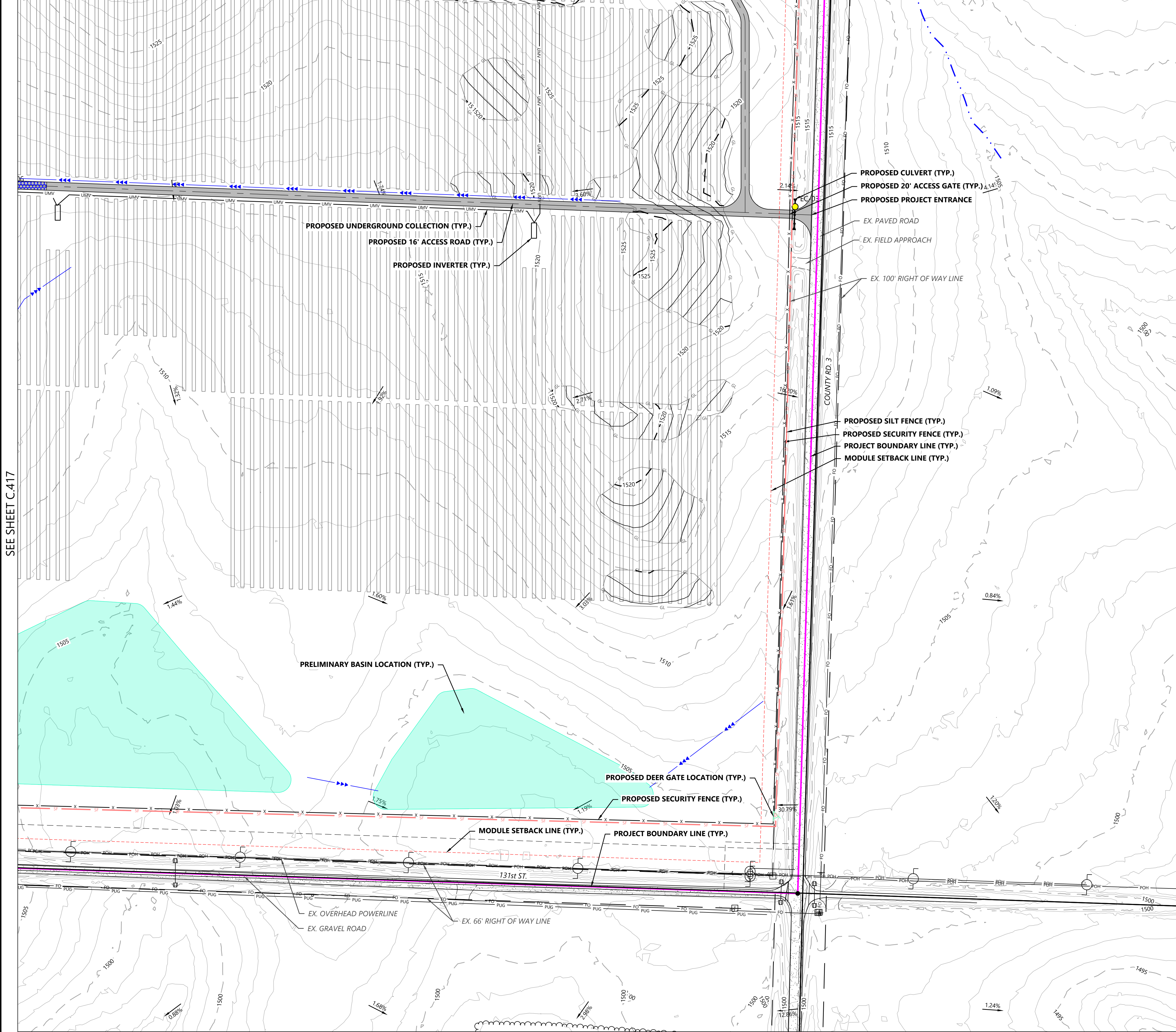
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SEE SHEET C.416

SEE SHEET C.418

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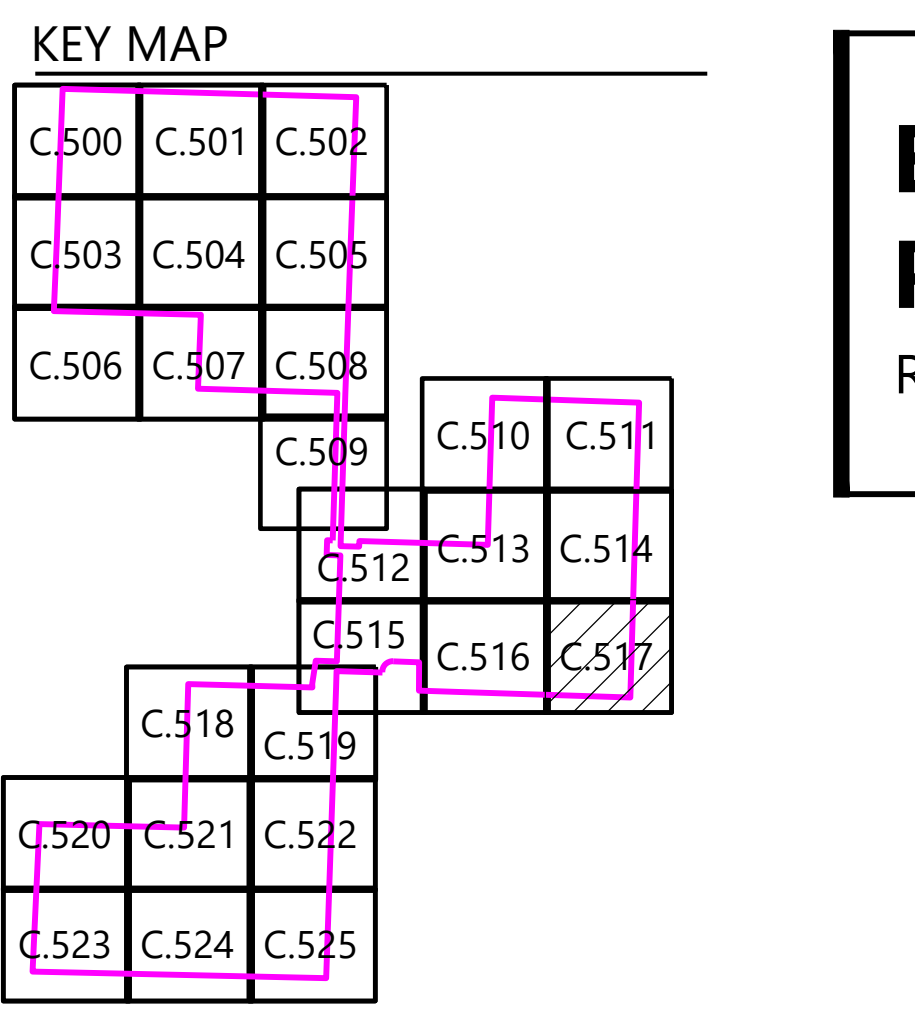
SEE SHEET C.415



SEE SHEET C.417

- LEGEND:**
- PROJECT BOUNDARY
 - - - EX. EASEMENT LINE
 - - - EX. SECTION LINE
 - EX. PARCEL LINE
 - RIGHT-OF-WAY LINES
 - EX. OVERHEAD POWER
 - PUG EX. UNDERGROUND COLLECTION
 - FO EX. FIBER OPTIC
 - EX. PAVED ROAD
 - EX. GRAVEL ROAD
 - EX. STREAM CHANNEL
 - EX. WETLAND
 - EX. STRUCTURE
 - EX. CULVERT
 - EX. SIGN
 - EX. TELEPHONE PEDESTAL
 - 900 EX. INDEX CONTOUR
 - 910 EX. INTERVAL CONTOUR
 - PROPOSED INTERVAL CONTOUR
 - PROPOSED SOLAR ARRAY WITH INVERTER
 - PROPOSED WETLAND SETBACK
 - PROPOSED SOLAR ARRAY BOUNDARY
 - PROPOSED MODULE SETBACK
 - PROPOSED ACCESS ROAD
 - X X X PROPOSED SECURITY FENCE
 - PROPOSED LAYDOWN YARD
 - PROPOSED O&M LOCATION
 - PROPOSED SUBSTATION LOCATION
 - PROPOSED EXISTING SUBSTATION EXPANSION LOCATION
 - PROPOSED SCREENING
 - PROPOSED LOW WATER CROSSING
 - SF PROPOSED SILT FENCE
 - PROPOSED CULVERT
 - PROPOSED PRELIM DRAINAGE BASIN
 - DL PROPOSED DISTURBANCE LIMITS
 - GL PROPOSED GRADING LIMITS
 - PROPOSED GRADE BREAK SWALES
 - DC-XX PROPOSED DRAINAGE CROSSING
 - EC-XX PROPOSED ENTRANCE CULVERT
 - UMW PROPOSED UNDERGROUND COLLECTION
 - OMV PROPOSED OVERHEAD COLLECTION
 - PROPOSED DEER GATE LOCATION

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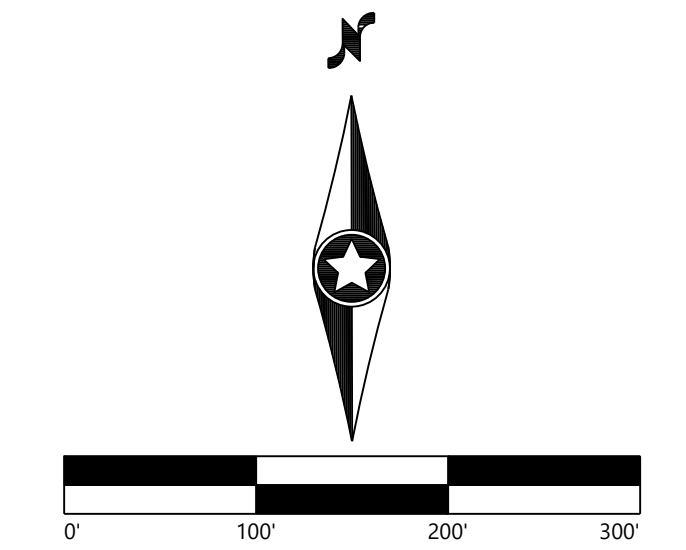
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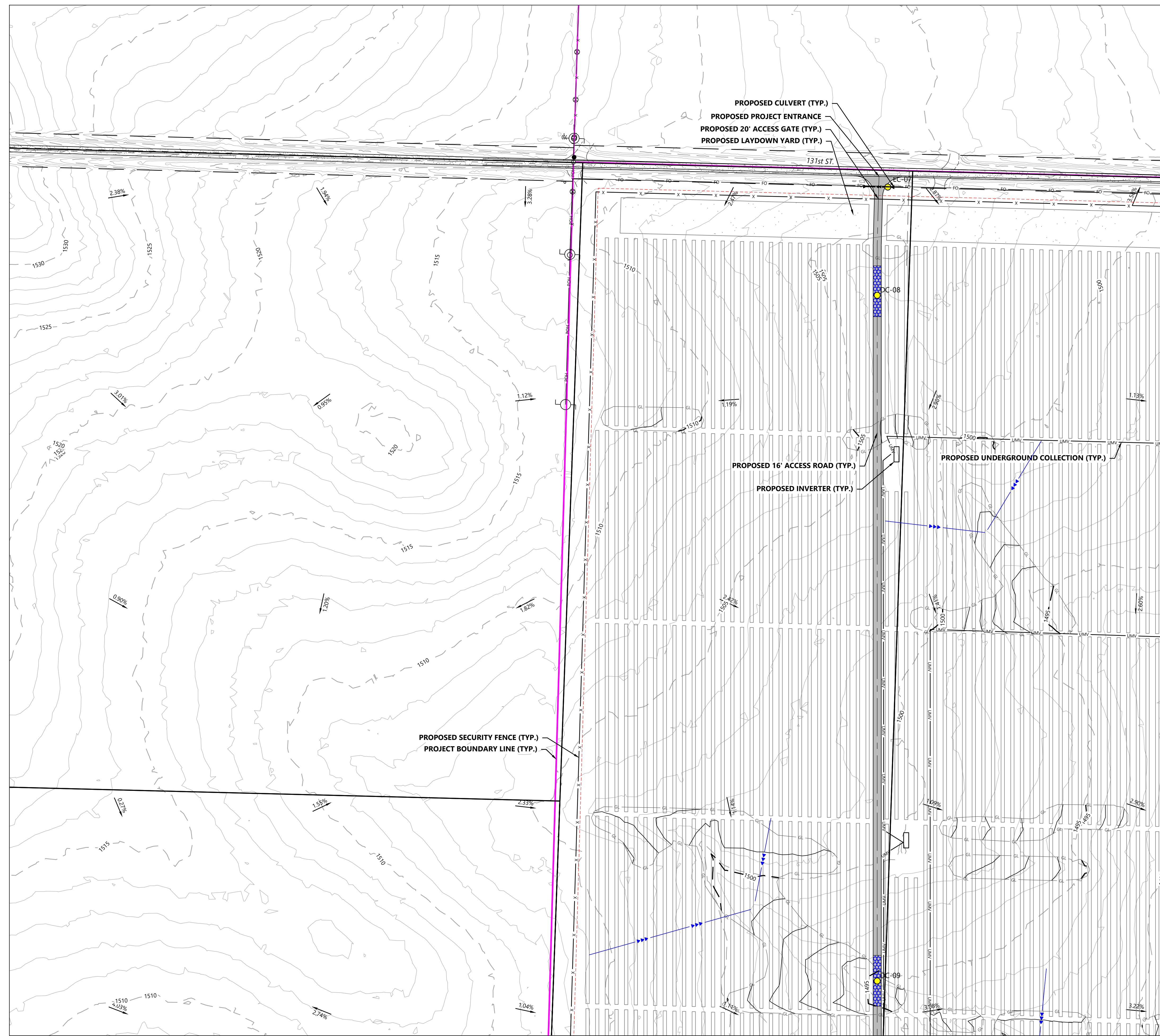


Elk Creek Solar Project
 Rock County, MN

Grading and Drainage
 Plan - 18

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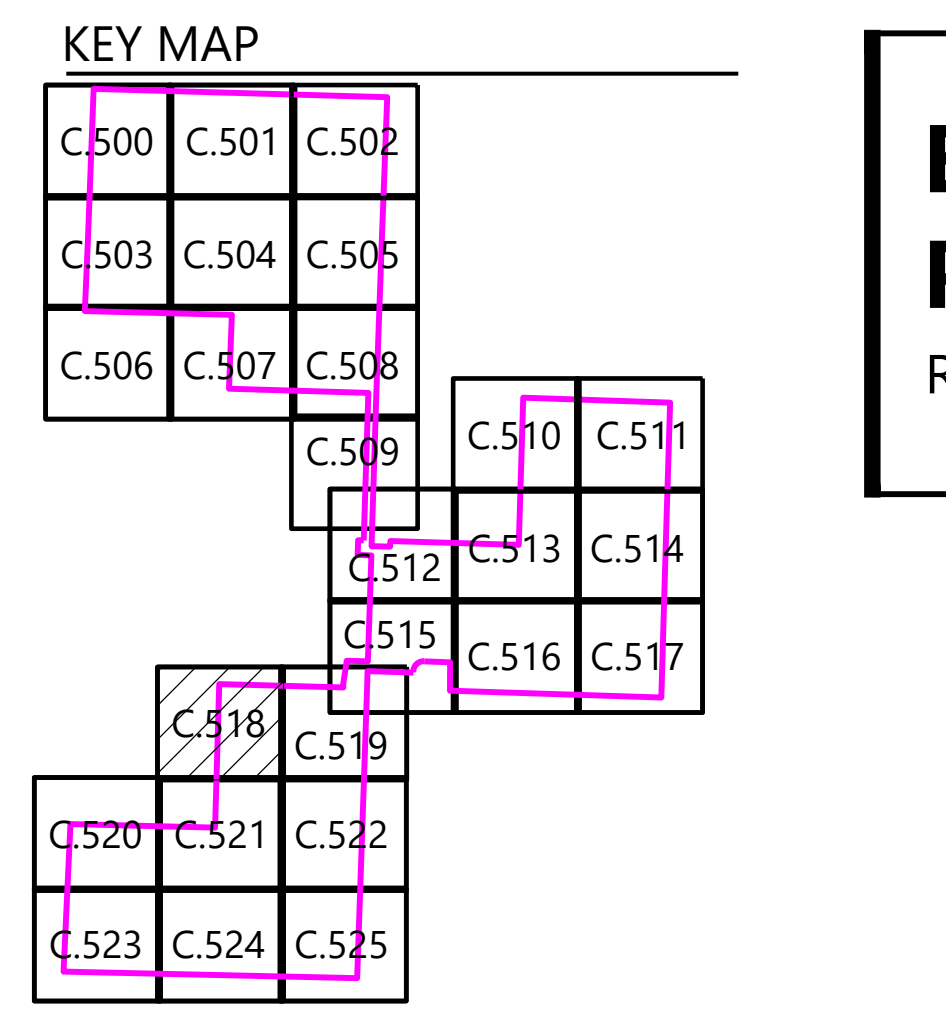
DATE: 05/01/2023 REV:
 SHEET: C.517 A



LEGEND:

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	EX. SECTION LINE
	EX. PARCEL LINE
	RIGHT-OF-WAY LINES
	EX. OVERHEAD POWER
	EX. UNDERGROUND COLLECTION
	EX. FIBER OPTIC
	EX. PAVED ROAD
	EX. GRAVEL ROAD
	EX. STREAM CHANNEL
	EX. WETLAND
	EX. STRUCTURE
	EX. CULVERT
	EX. SIGN
	EX. TELEPHONE PEDESTAL
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERVAL CONTOUR
	PROPOSED SOLAR ARRAY WITH INVERTER
	PROPOSED WETLAND SETBACK
	PROPOSED SOLAR ARRAY BOUNDARY
	PROPOSED MODULE SETBACK
	PROPOSED ACCESS ROAD
	PROPOSED SECURITY FENCE
	PROPOSED LAYDOWN YARD
	PROPOSED O&M LOCATION
	PROPOSED SUBSTATION LOCATION
	PROPOSED EXISTING SUBSTATION EXPANSION LOCATION
	PROPOSED SCREENING
	PROPOSED LOW WATER CROSSING
	PROPOSED SILT FENCE
	PROPOSED CULVERT
	PROPOSED PRELIM DRAINAGE BASIN
	PROPOSED DISTURBANCE LIMITS
	PROPOSED GRADING LIMITS
	PROPOSED GRADE BREAK SWALES
	PROPOSED DRAINAGE CROSSING
	PROPOSED ENTRANCE CULVERT
	PROPOSED UNDERGROUND COLLECTION
	PROPOSED OVERHEAD COLLECTION
	PROPOSED DEER GATE LOCATION

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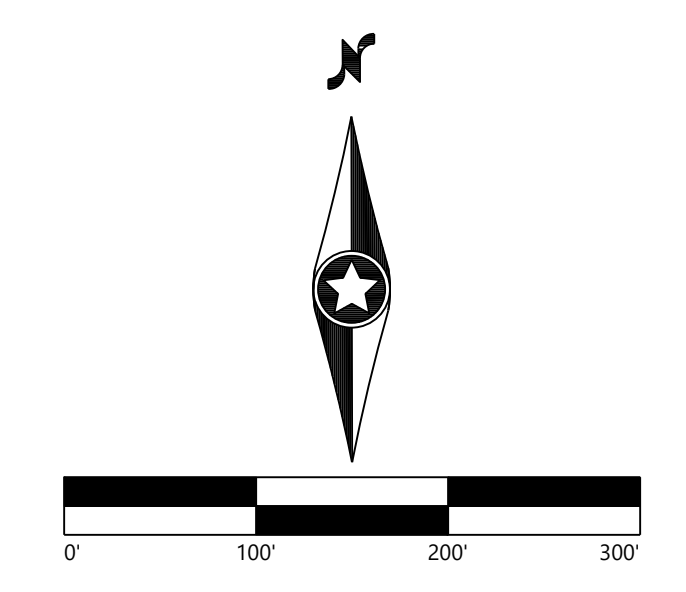


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Elk Creek Solar Project
 Rock County, MN

Grading and Drainage Plan - 19

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DATE: 05/01/2023
 SHEET: C.518 A

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SEE SHEET C.420

SEE SHEET C.419

SEE SHEET C.425

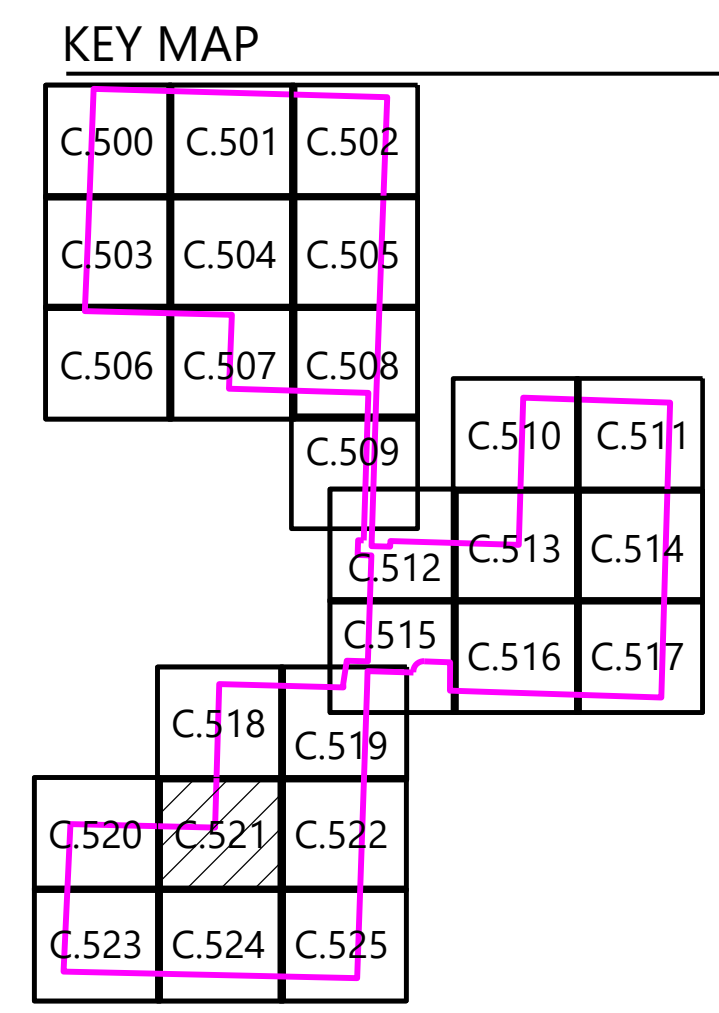
SEE SHEET C.421

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- LEGEND:**
- PROJECT BOUNDARY
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 - - - EX. SECTION LINE
 - EX. PARCEL LINE
 - RIGHT-OF-WAY LINES
 - EX. OVERHEAD POWER
 - EX. UNDERGROUND COLLECTION
 - EX. FIBER OPTIC
 - EX. PAVED ROAD
 - EX. GRAVEL ROAD
 - EX. STREAM CHANNEL
 - EX. WETLAND
 - EX. STRUCTURE
 - EX. CULVERT
 - EX. SIGN
 - EX. TELEPHONE PEDESTAL
 - EX. INDEX CONTOUR
 - EX. INTERVAL CONTOUR
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERVAL CONTOUR
 - PROPOSED SOLAR ARRAY WITH INVERTER
 - PROPOSED WETLAND SETBACK
 - PROPOSED SOLAR ARRAY BOUNDARY
 - PROPOSED MODULE SETBACK
 - PROPOSED ACCESS ROAD
 - PROPOSED SECURITY FENCE
 - PROPOSED LAYDOWN YARD
 - PROPOSED O&M LOCATION
 - PROPOSED SUBSTATION LOCATION
 - PROPOSED EXISTING SUBSTATION EXPANSION LOCATION
 - PROPOSED SCREENING
 - PROPOSED LOW WATER CROSSING
 - PROPOSED SILT FENCE
 - PROPOSED CULVERT
 - PROPOSED PRELIM DRAINAGE BASIN
 - PROPOSED DISTURBANCE LIMITS
 - PROPOSED GRADING LIMITS
 - PROPOSED GRADE BREAK SWALES
 - PROPOSED DRAINAGE CROSSING
 - PROPOSED ENTRANCE CULVERT
 - PROPOSED UNDERGROUND COLLECTION
 - PROPOSED OVERHEAD COLLECTION
 - PROPOSED DEER GATE LOCATION
- DC-XX
 EC-XX

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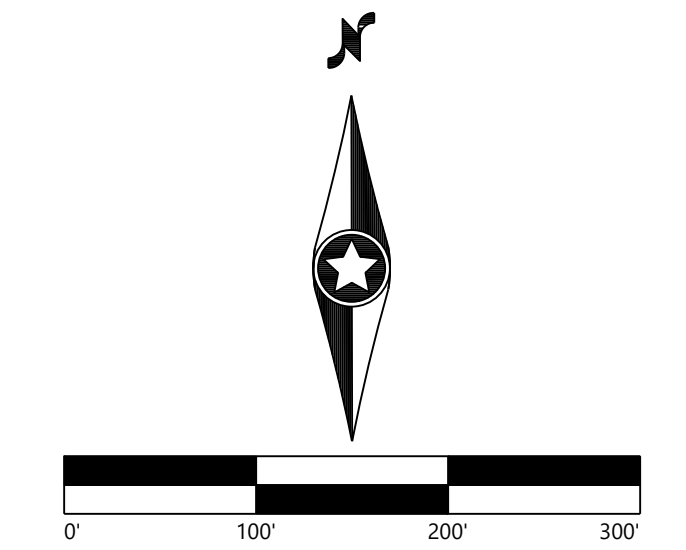
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Elk Creek Solar Project

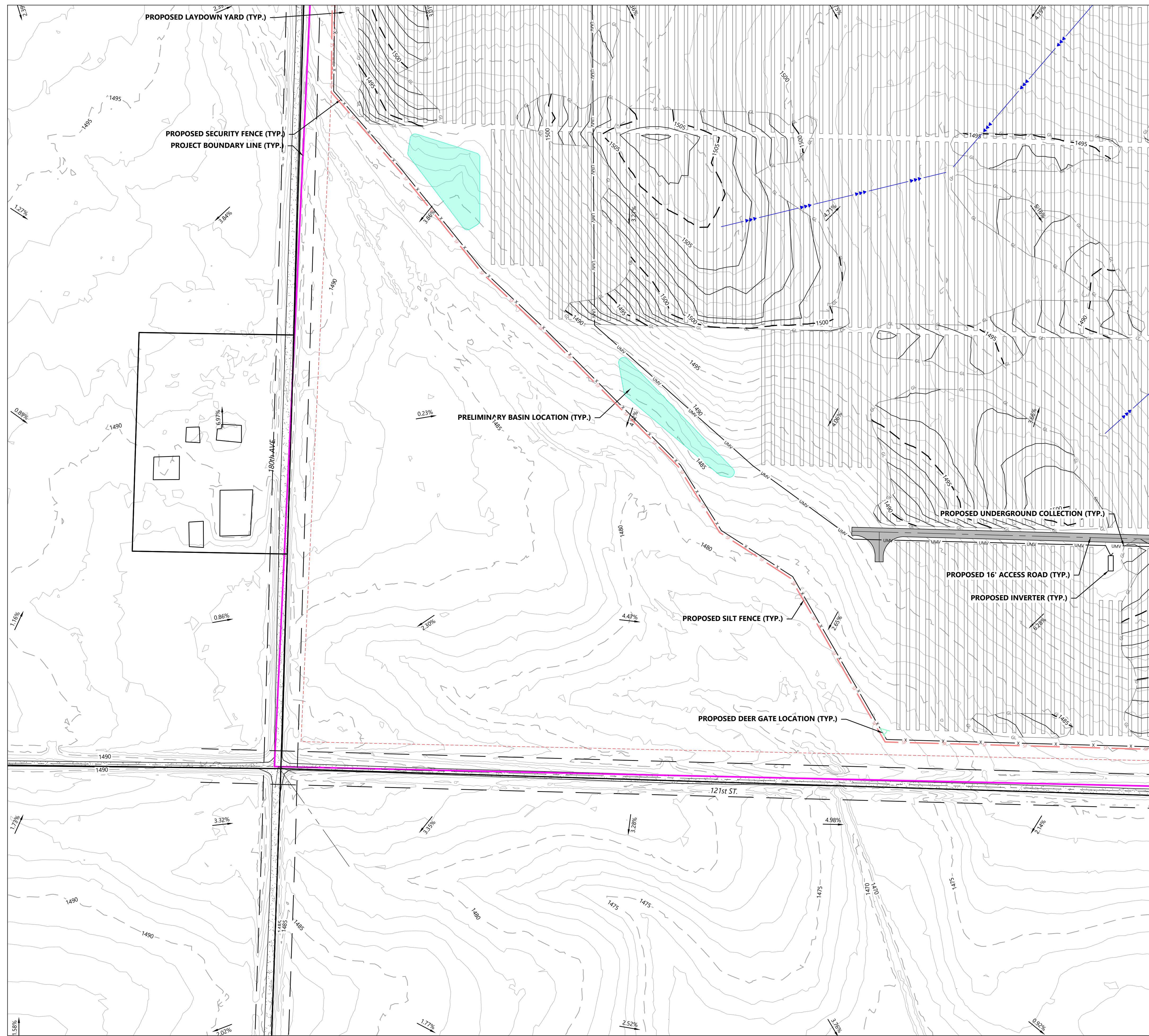
Rock County, MN

Grading and Drainage
 Plan - 22

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DATE: 05/01/2023 REV:
 SHEET: C.521 A

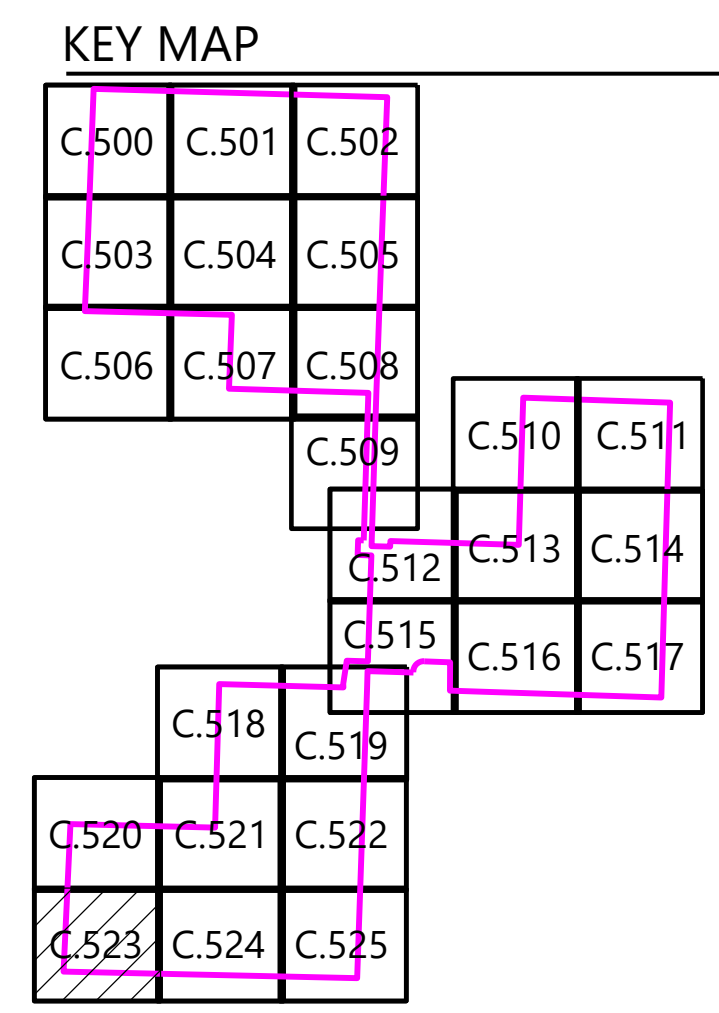
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LEGEND:

	PROJECT BOUNDARY
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	EX. SECTION LINE
	EX. PARCEL LINE
	RIGHT-OF-WAY LINES
	EX. OVERHEAD POWER
	EX. UNDERGROUND COLLECTION
	EX. FIBER OPTIC
	EX. PAVED ROAD
	EX. GRAVEL ROAD
	EX. STREAM CHANNEL
	EX. WETLAND
	EX. STRUCTURE
	EX. CULVERT
	EX. SIGN
	EX. TELEPHONE PEDESTAL
	EX. INDEX CONTOUR
	EX. INTERVAL CONTOUR
	PROPOSED INDEX CONTOUR
	PROPOSED INTERVAL CONTOUR
	PROPOSED SOLAR ARRAY WITH INVERTER
	PROPOSED WETLAND SETBACK
	PROPOSED SOLAR ARRAY BOUNDARY
	PROPOSED MODULE SETBACK
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	PROPOSED SECURITY FENCE
	PROPOSED LAYDOWN YARD
	PROPOSED O&M LOCATION
	PROPOSED SUBSTATION LOCATION
	PROPOSED EXISTING SUBSTATION EXPANSION LOCATION
	PROPOSED SCREENING
	PROPOSED LOW WATER CROSSING
	PROPOSED SILT FENCE
	PROPOSED CULVERT
	PROPOSED PRELIM DRAINAGE BASIN
	PROPOSED DISTURBANCE LIMITS
	PROPOSED GRADING LIMITS
	PROPOSED GRADE BREAK SWALES
	PROPOSED DRAINAGE CROSSING
	PROPOSED ENTRANCE CULVERT
	PROPOSED UNDERGROUND COLLECTION
	PROPOSED OVERHEAD COLLECTION
	PROPOSED DEER GATE LOCATION

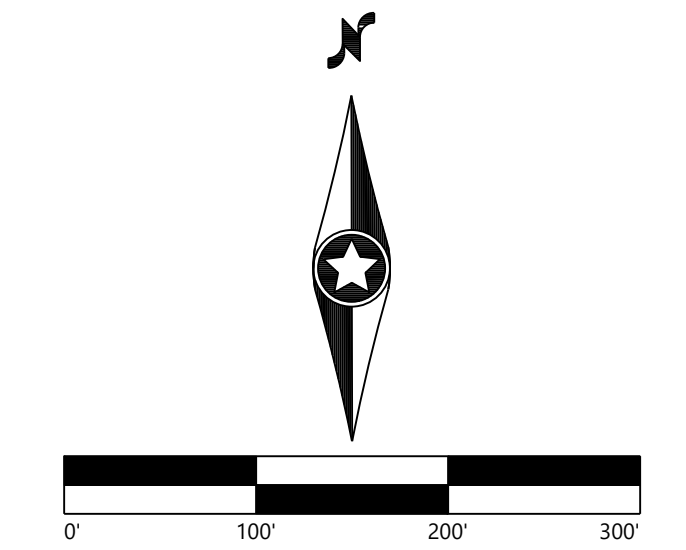
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Elk Creek Solar Project
 Rock County, MN

Grading and Drainage Plan - 24

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